



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**BUREAU OF ENGINEERING**  
SUITE 700, JAMES K. POLK BUILDING  
505 DEADERICK STREET  
NASHVILLE, TENNESSEE 37243-1402  
(615) 741-0791

**JOHN C. SCHROER**  
COMMISSIONER

**BILL HASLAM**  
GOVERNOR

TO: Chuck Rychen, Assistant Chief Engineer of Operations  
FROM: Jim Moore, Director, Program Development and Administration Division  
SUBJECT: **Proprietary Item Request and Justification for the City of Memphis**

The Program Development and Administration Division Director, Jim Moore, requests approval for the City of Memphis to be certified to utilize the following proprietary items for installation, upgrades and maintenance of the signalization components of projects, over the next three years, where Federal and/or State funding is used:

- Vehicular Detection System – Sensys Networks Magnetometer Detection System

**Justification**

This proprietary item is essential for the synchronization with existing facilities. The City of Memphis signal maintenance division maintains all traffic signals within the city as well as many of the surrounding cities within Shelby County. Thus, specific proprietary items are necessitated for the signal maintenance division to maintain an inventory of traffic signal components. The proprietary item listed is a component that the City of Memphis utilizes in all of the traffic signals that require detection of bicycle traffic. This item is essential to provide bicyclists safe travel through a signalized intersection. The approval of the use of this proprietary item will allow for the traffic signals within the City of Memphis and Shelby County to be maintained to acceptable standards. The City has currently installed and operates 128 of these units throughout its Shelby County signalization service area, and employs a supporting staff that is fully trained in the installation, operation and maintenance of this item.

Given the reasons above, I would like to request proprietary certification because the patented or proprietary item listed above is essential for synchronization with existing facilities.

If you have any questions or comments, please contact Nate Brugler, Local Programs Office, at 615-532-4415.

I, Jim Moore, Director of Program Development and Administration, of the Tennessee Department of Transportation, do hereby certify that in accordance with the requirements of 23 CFR 635.411(a) (1) that the proprietary item listed above is essential for the synchronization with existing facilities.

*Sal J. Moore*  
Director, Traffic Ops  
\_\_\_\_\_  
Recommendation for Approval

*3/2/16*  
\_\_\_\_\_  
Date

*Chris Ryan*  
\_\_\_\_\_  
Assistant Chief Engineer of Operations

*3-7-16*  
\_\_\_\_\_  
Date



JIM STRICKLAND  
MAYOR

DIVISION OF ENGINEERING

TENNESSEE

January 19, 2016

Whitney Sullivan  
Transportation Manager  
Tennessee Department of Transportation  
James K. Polk Building, Suite 600  
505 Deaderick Street  
Nashville, TN 37243

Re: Proprietary Item Request

Description: Six City Streets in Memphis – South Prescott Street, East Brooks Road, New Horn Lake Road, Neely Road, and Florida Street

City: Memphis  
County: Shelby  
State Project #: 79LPLM-F3-261  
PIN #: 118089.00

The City of Memphis requests approval to utilize the following proprietary item in the subject project and any future projects:

**Vehicular Detection System – Sensys Networks Magnetometer Detection System**

The prior listed proprietary item is essential for the synchronization with existing facilities. The City of Memphis signal maintenance division maintains all traffic signals within the city as well as many of the surrounding cities within Shelby County. Thus, specific proprietary items are necessitated for the signal maintenance division to maintain an inventory of traffic signal components. The proprietary item listed is a component that the City of Memphis utilizes in all of the traffic signals that require detection of bicycle traffic. This item is essential to provide bicyclist safe travel through a signalized intersection. The approval of the use of this proprietary item will allow for the traffic signals within the City of Memphis and Shelby County to be maintained to acceptable standards. If you have any questions or comments, please contact Chee Chew (901) 636-6690.

Sincerely,

Manny Belen, P.E.  
Interim City Engineer

cc: File